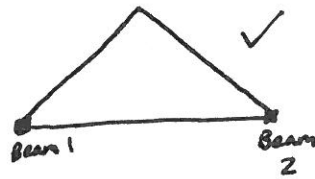
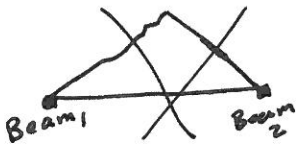


#12

Tom can attach both ends of the rope to each support in place.

He can walk out until the rope is taut while holding the middle of the rope.



Since he is in the middle, he is equidistant to both beams. He should place his third beam here because the Perpendicular Bisector Theorem Converse says, that if a point is equidistant to the end points of a segment, then that point lies on the perpendicular bisector of that segment.